

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-8. (Canceled)

9. (Previously presented) A method comprising:

generating a request from a mobile-device, the request comprising a request-layer including a home-address of the mobile-device and a server-address;  
encapsulating the request-layer with a roaming-layer including a real-address of the mobile-device and a home-agent-address;  
communicating the encapsulated request-layer to a home-agent based on the home-agent-address;  
using a program layer below a transmission control protocol/internet protocol (TCP/IP) program layer in the mobile-device to generate the request, encapsulate the request-layer and communicate the encapsulated request-layer;  
removing the roaming-layer from the encapsulated request-layer; and  
communicating the request-layer from the home-agent to a server based on the server-address.

Claim 10. (Canceled)

11. (Previously presented) The method of claim 9 further comprising:

generating a response to the request from the home-agent to the server, the response including a response-layer having the server-address and the home-agent-address; and  
communicating the response to the home-agent.

12. (Original) The method of claim 11 further comprising:

encapsulating the response with a roaming-layer, including the real-address and the home-address of the mobile-device; and  
communicating the encapsulated response to the mobile-device.

Claim 13. (Canceled)

14. (Previously presented) The method of claim 9 including using the program layer below a transmission control protocol/internet protocol (TCP/IP) program layer in the home-agent to modify the encapsulated request-layer with the roaming-layer and communicate the request-layer.

15. (Previously presented) A communication system comprising:

home-agent;

a server; and

a mobile-device including a processor configured to:

generate a request from the mobile-device, the request comprising a request-layer including a home-address of the mobile-device and a server-address of the server,

encapsulate the request-layer with a roaming-layer including a real-address of the mobile-device and a home-agent-address,

communicate the encapsulated request-layer to the home-agent based on the home-agent-address; and

use respective program layers below transmission control protocol/internet protocol (TCP/IP) program layers in the mobile-device and the home-agent to establish a communication path and maintain a communication path between the home-agent and the mobile-device.

16. (Previously presented) The system of claim 15 wherein the home-agent includes a processor configured to remove the roaming-layer from the encapsulated request-layer and communicate the request-layer from the home-agent to the server based on the server-address.

17. (Previously presented) The system of claim 15 wherein the home-agent includes a processor configured to:

encapsulate a response with a roaming-layer, including the real-address and the home-address of the mobile-device and

communicate the encapsulated response to the mobile-device.

18. (Previously presented) A mobile-device comprising:

a network-interface-adapter;  
a processor configured to:  
generate a request comprising a request-layer including a home-address of the mobile-device and a server-address,  
encapsulate the request-layer with a roaming-layer including a real-address of the mobile-device and a home-agent-address,  
communicate the encapsulated request-layer through the network-interface-adapter to a home-agent based on the home-agent-address; and  
use respective program layers below transmission control protocol/internet protocol (TCP/IP) program layers in the mobile-device and the home-agent to establish a communication path and maintain a communication path between the home-agent and the mobile-device.

Claim 19. (Canceled)

20. (Previously presented) A home-agent comprising:

a network-interface-adapter;  
a processor configured to:  
receive a request-layer encapsulated with a roaming layer, the request-layer including a server address,  
remove the roaming-layer from the encapsulated request-layer, and  
communicate the request-layer through the network-interface-adapter to a server based on the server-address, wherein  
the processor uses respective program layers below transmission control protocol/internet protocol (TCP/IP) program layers.

21. (Original) The home-agent of claim 20, the processor configured to:

receive a response from the server;  
encapsulate the response with a roaming-layer including a real-address and a home-address of the mobile-device, and  
communicate the encapsulated response to the mobile-device.

Claims 22-24. (Canceled)

25. (Previously presented) An article comprising a computer-readable medium that stores computer-executable instructions for causing a computer system to:

generate a request from a mobile-device, the request comprising a request-layer including a home-address of the mobile-device and a server-address;

encapsulate the request-layer with a roaming-layer including a real-address of the mobile-device and a home-agent-address;

communicate the encapsulated request-layer to a home-agent based on the home-agent-address; and

use respective program layers below transmission control protocol/internet protocol (TCP/IP) program layers in the mobile-device and the home-agent to establish a communication path and maintain a communication path between the home-agent and the mobile-device.

26. (Previously presented) The article of claim 25 including instructions for causing the computer system to:

remove the roaming-layer from the encapsulated request-layer; and

communicate the request-layer from the home-agent to a server based on the server-address.

27. (Previously presented) The article of claim 25 including instructions to:

generate a response to the request from the home-agent to a server, the response including a response-layer containing the server-address and the home-agent-address; and

communicate the response to the home-agent.

28. (Original) The article of claim 25 including instructions to:

encapsulate the response with a roaming-layer including the real-address and the home-address of the mobile-device; and

communicate the encapsulated response to the mobile-device.

Claim 29. (Canceled)